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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,803

DATE: 10/01/2001

TIME: 13:46:56

Input Set : N:\Crf3\RULE60\09938803.txt

Output Set: N:\CRF3\10012001\I938803.raw

4 <110> APPLICANT: Yue, Henry
5 Tang, Y. Tom
6 Lal, Preeti
7 Reddy, Roopa
8 Baughn, Mariah R.
9 Yang, Junming
10 Azimzai, Yalda
12 <120> TITLE OF INVENTION: FULL-LENGTH EXPRESSED GENETIC MARKERS
14 <130> FILE REFERENCE: PF-0695 US
16 <140> CURRENT APPLICATION NUMBER: 09/938,803
C--> 17 <141> CURRENT FILING DATE: 2000-08-24
19 <150> PRIOR APPLICATION NUMBER: 09/311,894
20 <151> PRIOR FILING DATE: 1999-05-14
22 <160> NUMBER OF SEQ ID NOS: 40
24 <170> SOFTWARE: PERL Program
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 349
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <223> OTHER INFORMATION: Incyte Clone 1841446
36 <400> SEQUENCE: 1
37 Met Ala Lys Ala Gly Asp Lys Ser Ser Ser Gly Lys Lys Ser
38 1 5 10 15
39 Leu Lys Arg Lys Ala Ala Ala Glu Glu Leu Gln Glu Ala Ala Gly
40 20 25 30
41 Ala Gly Asp Gly Ala Thr Glu Asn Gly Val Gln Pro Pro Lys Ala
42 35 40 45
43 Ala Ala Phe Pro Pro Gly Phe Ser Ile Ser Glu Ile Lys Asn Lys
44 50 55 60
45 Gln Arg Arg His Leu Met Phe Thr Arg Trp Lys Gln Gln Gln Arg
46 65 70 75
47 Lys Glu Lys Leu Ala Ala Lys Lys Lys Leu Lys Lys Glu Arg Glu
48 80 85 90
49 Ala Leu Gly Asp Lys Ala Pro Pro Lys Pro Val Pro Lys Thr Ile
50 95 100 105
51 Asp Asn Gln Arg Val Tyr Asp Glu Thr Thr Val Asp Pro Asn Asp
52 110 115 120
53 Glu Glu Val Ala Tyr Asp Glu Ala Thr Asp Glu Phe Ala Ser Tyr
54 125 130 135
55 Phe Asn Lys Gln Thr Ser Pro Lys Ile Leu Ile Thr Thr Ser Asp
56 140 145 150
57 Arg Pro His Gly Arg Thr Val Arg Leu Cys Glu Gln Leu Ser Thr
58 155 160 165
59 Val Ile Pro Asn Ser His Val Tyr Tyr Arg Arg Gly Leu Ala Leu
60 170 175 180

ENTERED

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61 Lys Lys Ile Ile Pro Gln Cys Ile Ala Arg Asp Phe Thr Asp Leu
62      185      190      195
63 Ile Val Ile Asn Glu Asp Arg Lys Thr Pro Asn Gly Leu Ile Leu
64      200      205      210
65 Ser His Leu Pro Asn Gly Pro Thr Ala His Phe Lys Met Ser Ser
66      215      220      225
67 Val Arg Leu Arg Lys Glu Ile Lys Arg Arg Gly Lys Asp Pro Thr
68      230      235      240
69 Glu His Ile Pro Glu Ile Ile Leu Asn Asn Phe Thr Thr Arg Leu
70      245      250      255
71 Gly His Ser Ile Gly Arg Met Phe Ala Ser Leu Phe Pro His Asn
72      260      265      270
73 Pro Gln Phe Ile Gly Arg Gln Val Ala Thr Phe His Asn Gln Arg
74      275      280      285
75 Asp Tyr Ile Phe Phe Arg Phe His Arg Tyr Ile Phe Arg Ser Glu
76      290      295      300
77 Lys Lys Val Gly Ile Gln Glu Leu Gly Pro Arg Phe Thr Leu Lys
78      305      310      315
79 Leu Arg Ser Leu Gln Lys Gly Thr Phe Asp Ser Lys Tyr Gly Glu
80      320      325      330
81 Tyr Glu Trp Val His Lys Pro Arg Glu Met Asp Thr Ser Arg Arg
82      335      340      345
83 Lys Phe His Leu
88 <210> SEQ ID NO: 2
89 <211> LENGTH: 169
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <223> OTHER INFORMATION: Incyte Clone 1850310
97 <400> SEQUENCE: 2
98 Met Gln Cys Leu Leu Pro Tyr Gln Ser Lys Glu Pro Ser Cys Leu
99 1      5      10      15
100 Pro Pro Leu Pro Leu Asn Leu Pro Leu Pro Pro Cys Leu Cys Pro
101      20      25      30
102 Leu Leu Gln Leu Asn Ala Ala Met Thr Arg Lys Glu Lys Thr Lys
103      35      40      45
104 Glu Gly Gln Arg Ala Ala Gln Phe Ser Ala Gly Ala Asp Ala Gly
105      50      55      60
106 Ser Gly Gly Gly Leu Ser Arg Gln Lys Asp Thr Lys Arg Pro Met
107      65      70      75
108 Leu Leu Val Ile His Asp Val Val Leu Glu Leu Leu Thr Ser Ser
109      80      85      90
110 Asp Cys His Ala Asn Pro Arg Lys Tyr Pro Thr Cys Gln Lys Ser
111      95      100      105
112 Glu Val Leu Gly Val Ser Ile Tyr Val Ser Ile Cys Pro Ser Thr
113      110      115      120
114 Arg Pro Arg Asp Lys Asn Lys Thr Lys Lys Arg Cys Gln Val Leu
115      125      130      135

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TIME: 13:46:56

Input Set : N:\Crif3\RULE60\09938803.txt

Output Set: N:\CRF3\10012001\I938803.raw

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116 Glu Ala Val Leu Val Ser Lys Pro Ser Gly Ser Cys His Gln Gly
117                               140                               145                               150
118 Ser Phe Glu Ile Val Pro His Val Lys Gly Asn Leu Ala Phe Thr
119                               155                               160                               165
120 Ser Ser Asn His
126 <210> SEQ ID NO: 3
127 <211> LENGTH: 316
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <223> OTHER INFORMATION: Incyte Clone 1887020
135 <400> SEQUENCE: 3
136 Met Glu Ser Asn Val Lys Val Gln Arg Gln Glu Gly Ala Lys Val
137 1                               5                               10                               15
138 Ser Leu Met Ser Pro Asp Gln Leu Arg Asn Lys Phe Pro Trp Ile
139                               20                               25                               30
140 Asn Thr Glu Gly Val Ala Leu Ala Ser Tyr Gly Met Glu Asp Glu
141                               35                               40                               45
142 Gly Trp Phe Asp Pro Trp Cys Leu Leu Gln Gly Leu Arg Arg Lys
143                               50                               55                               60
144 Val Gln Ser Leu Gly Val Leu Phe Cys Gln Gly Glu Val Thr Arg
145                               65                               70                               75
146 Phe Val Ser Ser Ser Gln Arg Met Leu Thr Thr Asp Asp Lys Ala
147                               80                               85                               90
148 Val Val Leu Lys Arg Ile His Glu Val His Val Lys Met Asp Arg
149                               95                               100                              105
150 Ser Leu Glu Tyr Gln Pro Val Glu Cys Ala Ile Val Ile Asn Ala
151                               110                              115                              120
152 Ala Gly Ala Trp Ser Ala Gln Ile Ala Ala Leu Ala Gly Val Gly
153                               125                              130                              135
154 Glu Gly Pro Pro Gly Thr Leu Gln Gly Thr Lys Leu Pro Val Glu
155                               140                              145                              150
156 Pro Arg Lys Arg Tyr Val Tyr Val Trp His Cys Pro Gln Gly Pro
157                               155                              160                              165
158 Gly Leu Glu Thr Pro Leu Val Ala Asp Thr Ser Gly Ala Tyr Phe
159                               170                              175                              180
160 Arg Arg Glu Gly Leu Gly Ser Asn Tyr Leu Gly Gly Arg Ser Pro
161                               185                              190                              195
162 Thr Glu Gln Glu Glu Pro Asp Pro Ala Asn Leu Glu Val Asp His
163                               200                              205                              210
164 Asp Phe Phe Gln Asp Lys Val Trp Pro His Leu Ala Leu Arg Val
165                               215                              220                              225
166 Pro Ala Phe Glu Thr Leu Lys Val Gln Ser Ala Trp Ala Gly Tyr
167                               230                              235                              240
168 Tyr Asp Tyr Asn Thr Phe Asp Gln Asn Gly Val Val Gly Pro His
169                               245                              250                              255
170 Pro Leu Val Val Asn Met Tyr Phe Ala Thr Gly Phe Ser Gly His
171                               260                              265                              270

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TIME: 13:46:56

Input Set : N:\Crif3\RULE60\09938803.txt

Output Set: N:\CRF3\10012001\I938803.raw

```

172 Gly Leu Gln Gln Ala Pro Gly Ile Gly Arg Ala Val Ala Glu Met
173           275           280           285
174 Val Leu Lys Gly Arg Phe Gln Thr Ile Asp Leu Ser Pro Phe Leu
175           290           295           300
176 Phe Thr Arg Phe Tyr Leu Gly Glu Lys Ile Gln Glu Asn Asn Ile
177           305           310           315
178 Ile
183 <210> SEQ ID NO: 4
184 <211> LENGTH: 220
185 <212> TYPE: PRT
186 <213> ORGANISM: Homo sapiens
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <223> OTHER INFORMATION: Incyte Clone 1911421
192 <400> SEQUENCE: 4
193 Met Lys Ser Val Ile Tyr His Ala Leu Ser Gln Lys Glu Ala Asn
194 1           5           10           15
195 Asp Ser Asp Val Gln Pro Ser Gly Ala Gln Arg Ala Glu Ala Phe
196           20           25           30
197 Val Arg Ala Phe Leu Lys Arg Ser Thr Pro Arg Met Ser Pro Gln
198           35           40           45
199 Ala Arg Glu Asp Gln Leu Gln Arg Lys Ala Val Val Leu Glu Tyr
200           50           55           60
201 Phe Thr Arg His Lys Arg Lys Glu Lys Lys Lys Lys Ala Lys Gly
202           65           70           75
203 Leu Ser Ala Arg Gln Arg Arg Glu Leu Arg Leu Phe Asp Ile Lys
204           80           85           90
205 Pro Glu Gln Gln Arg Tyr Ser Leu Phe Leu Pro Leu His Glu Leu
206           95          100          105
207 Trp Lys Gln Tyr Ile Arg Asp Leu Cys Ser Gly Leu Lys Pro Asp
208          110          115          120
209 Thr Gln Pro Gln Met Ile Gln Ala Lys Leu Leu Lys Ala Asp Leu
210          125          130          135
211 His Gly Ala Ile Ile Ser Val Thr Lys Ser Lys Cys Pro Ser Tyr
212          140          145          150
213 Val Gly Ile Thr Gly Ile Leu Leu Gln Glu Thr Lys His Ile Phe
214          155          160          165
215 Lys Ile Ile Thr Lys Glu Asp Arg Leu Lys Val Ile Pro Lys Leu
216          170          175          180
217 Asn Cys Val Phe Thr Val Glu Thr Asp Gly Phe Ile Ser Tyr Ile
218          185          190          195
219 Tyr Gly Ser Lys Phe Gln Leu Arg Ser Ser Glu Arg Ser Ala Lys
220          200          205          210
221 Lys Phe Lys Ala Lys Gly Thr Ile Asp Leu
222          215          220
227 <210> SEQ ID NO: 5
228 <211> LENGTH: 235
229 <212> TYPE: PRT
230 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING

DATE: 10/01/2001

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TIME: 13:46:56

Input Set : N:\Crif3\RULE60\09938803.txt

Output Set: N:\CRF3\10012001\I938803.raw

W--> 232 <220> FEATURE: -

233 <221> NAME/KEY: misc_feature

234 <223> OTHER INFORMATION: Incyte Clone 1911910

236 <400> SEQUENCE: 5

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237 Met Gly Ser Thr Glu Ser Ser Glu Gly Arg Arg Val Ser Phe Gly
238   1           5           10           15
239 Val Asp Glu Glu Glu Arg Val Arg Val Leu Gln Gly Val Arg Leu
240           20           25           30
241 Ser Glu Asn Val Val Asn Arg Met Lys Glu Pro Ser Ser Pro Pro
242           35           40           45
243 Pro Ala Pro Thr Ser Ser Thr Phe Gly Leu Gln Asp Gly Asn Leu
244           50           55           60
245 Arg Ala Pro His Lys Glu Ser Thr Leu Pro Arg Ser Gly Ser Ser
246           65           70           75
247 Gly Gly Gln Gln Pro Ser Gly Met Lys Glu Gly Val Lys Arg Tyr
248           80           85           90
249 Glu Gln Glu His Ala Ala Ile Gln Asp Lys Leu Phe Gln Val Ala
250           95          100          105
251 Lys Arg Glu Arg Glu Ala Ala Thr Lys His Ser Lys Ala Ser Leu
252          110          115          120
253 Pro Thr Gly Glu Gly Ser Ile Ser His Glu Glu Gln Lys Ser Val
254          125          130          135
255 Arg Leu Ala Arg Glu Leu Glu Ser Arg Glu Ala Glu Leu Arg Arg
256          140          145          150
257 Arg Asp Thr Phe Tyr Lys Glu Gln Leu Glu Arg Ile Glu Arg Lys
258          155          160          165
259 Asn Ala Glu Met Tyr Lys Leu Ser Ser Glu Gln Phe His Glu Ala
260          170          175          180
261 Ala Ser Lys Met Glu Ser Thr Ile Lys Pro Arg Arg Val Glu Pro
262          185          190          195
263 Val Cys Ser Gly Leu Gln Ala Gln Ile Leu His Cys Tyr Arg Asp
264          200          205          210
265 Arg Pro His Glu Val Leu Leu Cys Ser Asp Leu Val Lys Ala Tyr
266          215          220          225
267 Gln Arg Cys Val Ser Ala Ala His Lys Gly
268          230          235

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273 <210> SEQ ID NO: 6

274 <211> LENGTH: 487

275 <212> TYPE: PRT

276 <213> ORGANISM: Homo sapiens

278 <220> FEATURE:

279 <221> NAME/KEY: misc_feature

280 <223> OTHER INFORMATION: Incyte Clone 1928920

282 <400> SEQUENCE: 6

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283 Met Ala Ser Ser Ala Glu Gly Asp Glu Gly Thr Val Val Ala Leu
284   1           5           10           15
285 Ala Gly Val Leu Gln Ser Gly Phe Gln Glu Leu Ser Leu Asn Lys
286           20           25           30
287 Leu Ala Thr Ser Leu Gly Ala Ser Glu Gln Ala Leu Arg Leu Ile

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/938,803

DATE: 10/01/2001

TIME: 13:46:57

Input Set : N:\Crf3\RULE60\09938803.txt

Output Set: N:\CRF3\10012001\I938803.raw

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:232 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:1731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35